

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 233P111

Luminaire Tested: **NY-2GC8-432A19/156**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 233P111  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: NY-2GC8-432A19/156  
Description: METALUX 2' X 4' SPECIFICATION GRADE NYC RATED RECESSED FLUORESCENT  
TROFFER WITH  
HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS, TYPE  
#19, 0.156" THK  
Light Source: Four - FO32/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B432IUNVHP-A Electronic - L.O.B.F. - Unknown

**Summary**

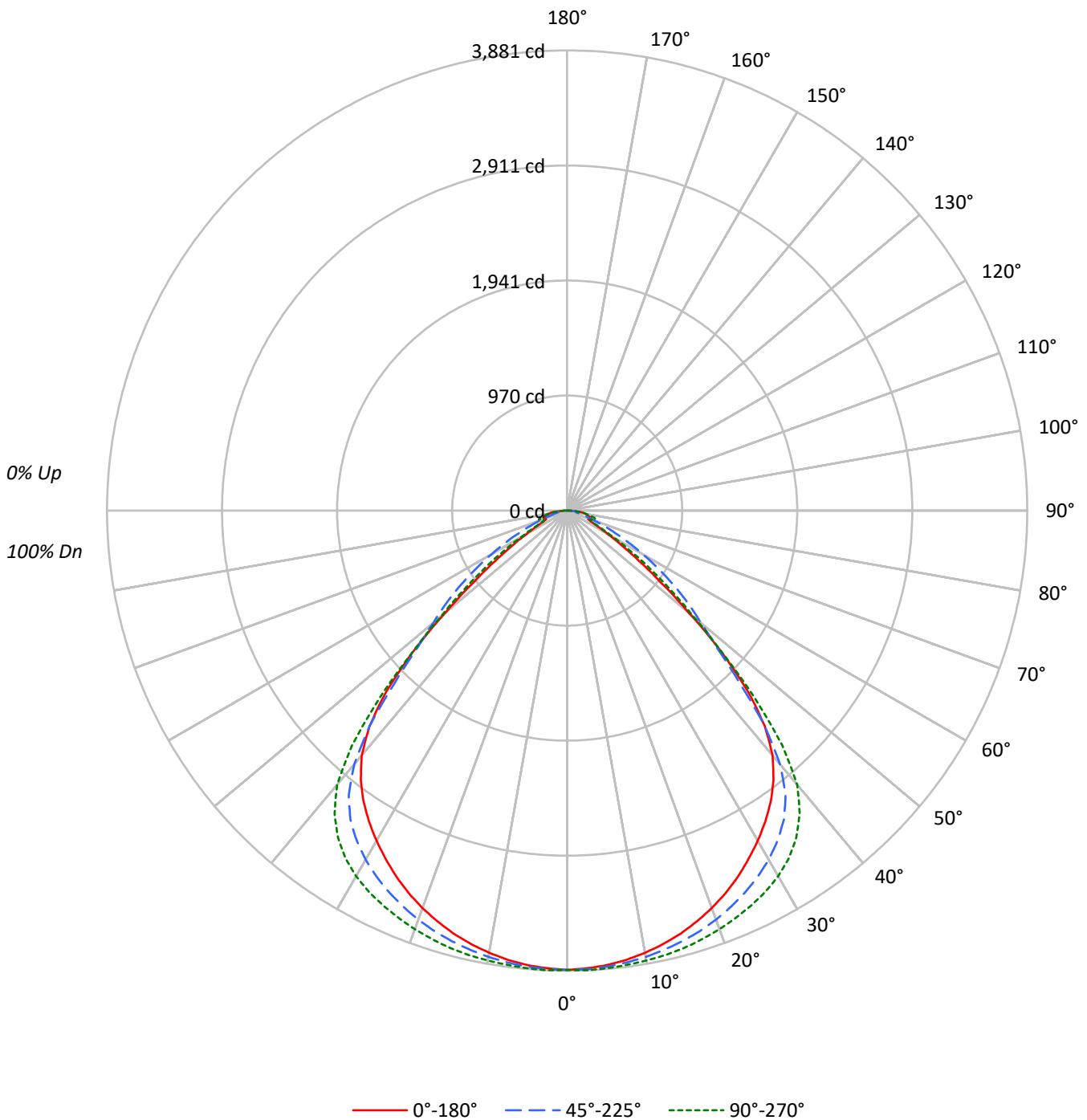
Lumens per Lamp: 2800 (4 lamps)  
Luminaire Lumens: 8407.4 lumens  
Efficiency: 75.1%  
Efficacy: 75.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.35 / 1.31  
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')  
CIE Type: Direct

Input Watts (W): 111  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	89	89	89	89	87	87	87	87	83	83	83		80	80	80		77	77	77	75
1	83	80	77	75	81	78	76	74	75	73	72		72	71	69		70	69	67	66
2	77	72	67	64	75	70	66	63	68	64	62		65	63	60		63	61	59	57
3	71	64	59	55	69	63	58	54	61	57	53		59	56	53		57	54	52	50
4	66	58	52	48	64	57	52	47	55	51	47		54	50	46		52	49	46	44
5	61	52	47	42	60	52	46	42	50	45	41		49	44	41		47	44	41	39
6	57	48	42	37	55	47	41	37	46	41	37		45	40	37		43	39	36	35
7	53	44	38	33	52	43	37	33	42	37	33		41	36	33		40	36	33	31
8	49	40	34	30	48	40	34	30	39	34	30		38	33	30		37	33	30	28
9	46	37	31	27	45	37	31	27	36	31	27		35	30	27		34	30	27	26
10	43	34	29	25	43	34	29	25	33	28	25		32	28	25		32	28	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6114	6114	6114
5°	6097	6117	6138
10°	6069	6125	6175
15°	6036	6142	6239
20°	5991	6166	6310
25°	5933	6187	6398
30°	5859	6195	6488
35°	5769	6137	6491
40°	5551	5757	6218
45°	4812	4600	4995
50°	3285	3614	3408
55°	2017	3027	2347
60°	1253	2320	1424
65°	837	1677	896
70°	914	1089	1024
75°	1165	750	1445
80°	1445	664	1491
85°	1612	1521	1376



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	367.2	4.4	3.3	0°	3874	3874	3874	3874	3874	
10°-20°	1061.2	12.6	9.5	5°	3848	3852	3861	3867	3874	365
20°-30°	1635.0	19.4	14.6	15°	3694	3713	3759	3799	3818	1042
30°-40°	1976.9	23.5	17.7	25°	3407	3456	3553	3637	3674	1569
40°-50°	1663.0	19.8	14.8	35°	2994	3061	3185	3306	3369	1865
50°-60°	913.8	10.9	8.2	45°	2156	2176	2061	2253	2238	1612
60°-70°	445.0	5.3	4.0	55°	733	1061	1100	1064	853	695
70°-80°	249.7	3.0	2.2	65°	224	566	449	480	240	249
80°-90°	95.6	1.1	0.9	75°	191	329	123	277	237	198
90°-100°	0.0	0.0	0.0	85°	89	107	84	102	76	88
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	3063.4	36.4	27.4	165°	0	0	0	0	0	0
0°-40°	5040.3	60.0	45.0	175°	0	0	0	0	0	0
0°-60°	7617.1	90.6	68.0	180°	0	0	0	0	0	0
0°-90°	8407.4	100.0	75.1							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	8407.4	100.0	75.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3874	3874	3874	3874	3874
2.5°	3863	3865	3871	3876	3881
5°	3848	3852	3861	3867	3874
7.5°	3822	3829	3844	3857	3865
10°	3787	3797	3822	3843	3853
12.5°	3744	3759	3793	3824	3839
15°	3694	3713	3759	3799	3818
17.5°	3634	3660	3719	3767	3789
20°	3567	3600	3671	3730	3757
22.5°	3492	3531	3615	3687	3718
25°	3407	3456	3553	3637	3674
27.5°	3313	3371	3481	3579	3623
30°	3215	3279	3399	3511	3560
32.5°	3110	3176	3302	3422	3478
35°	2994	3061	3185	3306	3369
37.5°	2859	2924	3026	3150	3222
40°	2694	2750	2794	2932	3018
42.5°	2467	2505	2464	2622	2685
45°	2156	2176	2061	2253	2238
47.5°	1762	1803	1711	1902	1773
50°	1338	1492	1472	1596	1388
52.5°	996	1255	1287	1318	1097
55°	733	1061	1100	1064	853
57.5°	540	899	909	844	632
60°	397	764	735	676	451
62.5°	294	654	586	560	324
65°	224	566	449	480	240
67.5°	192	498	328	419	205
70°	198	444	236	367	222
72.5°	211	390	169	317	251
75°	191	329	123	277	237
77.5°	170	264	91	247	199
80°	159	204	73	202	164
82.5°	136	153	80	146	122
85°	89	107	84	102	76
87.5°	39	57	52	55	36
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)